

SEQUENCE LISTING

<110> Cheah, Kathryn Cheung, Kenneth

<120> USE OF TRANSGENIC MOUSE CONTAINING A TYPE X COLLAGEN MUTANT

<130> 0467/57114-B

<140> 09/975,607

<141> 2001-10-11

<160> 5

<170> PatentIn version 3.1

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<212> DNA

<213> Mouse

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gcaatcatgg agetcacaga aaatgaccag gtatggetee aattgeecaa tgeagaatea 420
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Gly Met Pro Leu Val Ser Ala Asn His Gly Val Thr Gly Met Pro Val 20 25 30

Ser Ala Phe Thr Val Ile Leu Ser Lys Ala Tyr Pro Ala Val Gly Ala 35 40 45

Pro Ile Pro Phe Asp Glu Ile Leu Tyr Asn Arg Gln Gln His Tyr Asp 50 55 60

Pro Arg Ser Gly Ile Phe Thr Cys Lys Ile Pro Gly Ile Tyr Tyr Phe 65 70 75 80

Ser Tyr His Val His Val Lys Gly Thr His Val Trp Val Gly Leu Tyr 85 90 95

Lys Asn Gly Thr Pro Thr Met Tyr Thr Tyr Asp Glu Tyr Ser Lys Gly 100 105 110

Tyr Leu Asp Gln Ala Ser Gly Ser Ala Ile Met Glu Leu Thr Glu Asn 115 120 125

Asp Gln Val Trp Leu Gln Leu Pro Asn Ala Glu Ser Asn Gly Leu Tyr 130 135 140

Ser Ser Glu Tyr Val His Ser Ser Phe Ser Gly Phe Leu Val Ala Pro 145 150 155 160

Met

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<211> 152

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Val Met Pro Asp Gly Phe Ile Lys Ala Gly Gln Arg Pro Arg Leu Ser
1 5 10 15

Gly Met Pro Leu Val Ser Ala Asn His Gly Val Thr Gly Met Pro Val 20 25 30

Ser Ala Phe Thr Val Ile Leu Ser Lys Ala Tyr Pro Ala Val Gly Ala 35 40 45

Pro Ile Pro Phe Asp Glu Ile Leu Tyr Asn Arg Gln Gln His Tyr Asp 50 55 60

Pro Arg Ser Gly Ile Phe Thr Cys Lys Ile Pro Gly Ile Tyr Tyr Phe 65 70 75 80

Ser Tyr His Val His Val Lys Gly Thr His Val Trp Val Gly Leu Tyr 85 90 95

Lys Asn Gly Thr Arg Met Met Ser Thr Ala Lys Ala Thr Trp Ile Arg
100 105 110

Leu Gln Gly Val Gln Ser Trp Ser Ser Gln Lys Met Thr Arg Tyr Gly 115 120 125

Ser Asn Cys Pro Met Gln Asn Gln Thr Ala Ser Thr Pro Leu Ser Thr 130 135 140

Ser Thr Arg Pro Ser Gln Asp Ser

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150

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Val Met Pro Asp Gly Phe Ile Lys Ala Gly Gln Arg Pro Arg Leu Ser 1 5 10 15

Gly Met Pro Leu Val Ser Ala Asn His Gly Val Thr Gly Met Pro Val 20 25 30

Ser Ala Phe Thr Val Ile Leu Ser Lys Ala Tyr Pro Ala Val Gly Ala 35 40 45

Pro Ile Pro Phe Asp Glu Ile Leu Tyr Asn Arg Gln Gln His Tyr Asp 50 55 60

Pro Arg Ser Gly Ile Phe Thr Cys Lys Ile Pro Gly Ile Tyr Tyr Phe 65 70 75 80

Ser Tyr His Val His Val Lys Gly Thr His Val Trp Val Gly Leu Tyr 85 90 95

Lys Asn Gly Thr Pro Met Met Asn Thr Pro Lys Ala Thr Trp Ile Arg
100 105 110

Leu Gln Gly Val Pro Ser Ser Ile Ser Gln Lys Met Thr Arg Cys Gly

115 120 125

Ser Ser Phe Pro Met Pro Ser Gln Met Ala Tyr Thr Pro Leu Ser Met 130 135 140

 (C_1, E_2)

 * $\rightarrow t$.

Ser Thr Pro Leu Ser Gln Asp Ser

145 150